

National Imagery and Mapping Agency

NIMA Gateway Operations

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Know the Earth...Show the Way



NIMA Gateway Mission

INTEL COMMUNITY	
POLICY MAKERS	
STATE DEPT	
NATO	
ARMY	
NAVY	
AIR FORCE	
MARINES	
COALITION FORCES	
ALLIED COMMANDS	

*To disseminate NIMA
information in support of
National Security objectives
to a worldwide customer
base*

Gateway Information Areas

- **Geospatial Intelligence Information**
 - e.g., Digital Terrain Data, Controlled Image Base, Digital Raster and Vector Maps, Safety of Navigation, Geodetic and Geophysical Information, Commercial Imagery, RMS, Cables, National Imagery Intelligence Briefs, BDA Graphics, FirstLooks
- **Functional Manager's Documentation**
 - FMG, Capstone Requirements Docs, Modernization Plan Documents
- **Corporate Information, Policies, & Training**
 - General Counsel, NIMA College, etc.

Gateway Geospatial Intelligence Formats

- **Online Geospatial Raster/GRID formats online**
 - Raster Product Format (RPF) – Controlled Image Base (CIB), Compressed Arc Digitized Raster Graphics (CADRG) and Digital Terrain Elevation Data (DTED)
 - Mission Specific Data Sets (MSDS) Producer Formats: Geotiff/Tiff (LZW, Packbits), Jpeg, GIF, PNG, ARCGrid, ERDAS Imagine, EPS/PS, RTL (print format), Adobe PDF, PowerPoint and MrSid
- **Geospatial Engines** - The engines allow for the online discovery, exploitation and visualization of Geospatial Information
 - **Raster Roam (RR)**
 - Supports RPF (CADRG, CIB), Geotiff, MrSid and DTED formats and the following export formats: RPF, SunRaster, BMP, Geotiff/Tiff, ERDAS, GIS Raster (Arcview, Mapinfo), PNG, JPEG, SGI, IDRISI, ARCGrid, USGS DEM, VistaPro, Vis5D and Terragen Terrain
 - **Gateway Data Navigator (GDN)**
 - Supports RPF (CADRG, CIB) and DTED formats and the following export formats: RPF and Raster Roam formats

Geospatial Intelligence Formats (cont.)

- **Intelligence Products**
 - Product formats: TIFF, Adobe PDF, GIF, Geotiff and JPEG
- **Image Product Library (IPL)**
 - Product formats: NITF 2.0/2.1, export TIFF, JPEG, and SunRaster
- **Commercial Satellite Image Library (CSIL)**
 - The primary repository within DoD and Intelligence Community (IC) for previously purchased commercial imagery. CSIL was created to eliminate duplicate purchases and to gain maximum benefit and distribution of imagery already licensed to DoD/Title 50 (i.e., IC). CSIL operations have been placed under Information Services. The CSIL web interface allows users to discover and order commercial formats (Landsat, IKONOS, RADARSAT, etc...) in the following supported formats: NITF2.0, Geotiff, Native Commercial sensor formats.
- **Scene Visualization**
 - AVI and MPEG formats support the fly-through models
 - TerraExplorer – Skyline (www.skylinesoft.com) A 3D standalone or Web based application that allows users to perform interactive streaming fly-throughs online. The scenes are stored in a proprietary JPEG/Fractal format.

Conclusions

- **MrSid image compression is an Interim Solution**
- **The NIMA Gateway welcome and will support JPEG2000 still and motion video formats.**